

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (currently amended) A method for reducing a content of contaminating ~~metals~~ elements in ionic form present in aqueous effluents, comprising:

(a) providing an aqueous effluent comprising at least ~~a metal~~ an element M_i in ionic form, the ~~metal element~~ M_i being at least one selected from the group consisting of scandium, yttrium, lanthanum, actinium, titanium, zirconium, hafnium, vanadium, niobium, tantalum, chromium, molybdenum, tungsten, manganese, technetium, iron, ruthenium, cobalt, rhodium, ~~nickel~~, platinum, copper, silver, zinc, cadmium, mercury, aluminum, gallium, indium, thallium, silicon, germanium, tin, lead, arsenic, antimony, bismuth, selenium, tellurium, polonium, ~~iodine, astatine~~, cerium, praseodymium, neodymium, promethium, samarium, europium, gadolinium, terbium, dysprosium, holmium, erbium, thulium, ytterbium, lutetium, thorium, protactinium, uranium, neptunium, plutonium, americium, curium,

berkelium, californium, einsteinium, fermium, mendelevium, nobelium and lawrencium, alone or in admixture;

(b) treating the aqueous effluent with at least a ~~metal~~ M_i , nickel having a high specific surface area, completely or partially coated with hydrogen during the treatment of the ~~metal~~ ion(s) M_i , wherein the ~~metal~~ ions M_i are chemisorbed on the ~~metal~~ M_i , nickel; and

(c) recovering an aqueous effluent from which the ~~metal~~ element M_i has been eliminated or its content reduced.

2-6. (canceled)

7. (currently amended~~previously presented~~) The method according to claim 1, wherein the ~~metal~~ M_i , nickel is completely or partially coated with hydrogen before ~~being brought into contact with~~ the treatment of the ~~metal~~ ions M_i which are present in the aqueous effluent.

8-9. (canceled)

10. (currently amended) The method according to claim 1, wherein the ~~metal~~ ions M_i are the ionic forms of the elements or combinations of elements selected from the

group consisting of scandium, yttrium, lanthanum, actinium, titanium, zirconium, hafnium, vanadium, niobium, tantalum, chromium, molybdenum, tungsten, manganese, technetium, iron, ruthenium, cobalt, rhodium, ~~nickel~~, platinum, copper, silver, zinc, cadmium, mercury, aluminum, gallium, indium, thallium, silicon, germanium, tin, lead, arsenic, antimony, bismuth, selenium, tellurium, polonium, ~~iodine, astatine~~, cerium, europium, uranium, neptunium and plutonium, alone or in admixture.

11. (currently amended) The method according to claim 1, wherein the ~~metal~~ ions M_i are the ionic forms of the elements or combinations of elements selected from the group consisting of titanium, vanadium, chromium, manganese, iron, cobalt, ~~nickel~~, platinum, copper, silver, zinc, cadmium, mercury, aluminum, lead, arsenic, antimony, bismuth, selenium, polonium, cerium, uranium, neptunium and plutonium, alone or in admixture.

12. (currently amended) The method according to claim 1, wherein the ~~metal~~ ions M_i are the ionic forms of the elements or combinations of elements selected from the group consisting of tin, chromium, cobalt, ~~nickel~~, copper,

zinc, cadmium, mercury, lead, arsenic, antimony, selenium, polonium, uranium, neptunium and plutonium, alone or in admixture.

13. (currently amended) The method according to claim 1, wherein the ~~metal-M,~~ nickel is deposited on a support.

14. (previously presented) The method according to claim 1, wherein the method is carried out at temperatures in the order of between approximately 0°C and 200°C.

15. (previously presented) The method according to claim 1, wherein the method is carried out with aqueous effluents whose pH value is in the order of between approximately 1 and approximately 14.

16. (previously presented) The method according to claim 1, wherein the aqueous effluent to be processed is water from groundwater tables, surface water, water distribution networks or industrial water, waster water, slurries or industrial waste.

17. (withdrawn, currently amended) A decontamination kit comprising at least a ~~metal-M_hr~~ nickel, which is intended to be utilized in the method according to claim 1.

18. (previously presented) The method according to claim 1, wherein the method is carried out at temperatures in the order of between approximately 0°C approximately 80°C.

19. (new) The method according to claim 1, wherein the nickel is Raney nickel.